

obtaining a first measure of received signal energy obtains a correlation peak, and wherein the step of obtaining a second measure of received signal energy obtains a correlation null.

³
~~18.~~ A method as in claim ¹~~16~~, wherein the steps of despread¹ing and obtaining are performed over a range of phase states.

⁴
~~19.~~ A method as in claim ³~~18~~, and further comprising steps of:

subtracting the results obtained for each phase state;

comparing a difference value to a threshold value; and

terminating the steps of despread¹ing and obtaining when the difference value exceeds the threshold value, and storing the corresponding phase state; else

if the difference value does not exceed the threshold value after performing the steps of despread¹ing and obtaining over the range of phase states, storing the phase state corresponding to a largest difference value; wherein

the stored phase state is used in the step of adjusting.--

REMARKS

The specification has been amended to insert the serial number and filing date of the related application referred to at page 1.

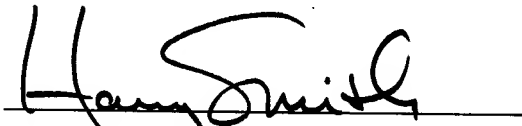
Claim 1 has been retained for filing purposes, claims 2-15 have been cancelled, and claims 16-19 have been newly

added.

Appended to this response is an IDS that makes of record the prior art from the parent application. In addition, U.S. Patent No.: 5,574,721 has been cited. The undersigned recently became aware of this patent, which teaches the use of a "phantom carrier signal" in an orthogonal CDMA system.

All of the claims of this continuation patent application are deemed to be allowable over the prior art of record. A favorable consideration that results in the allowance of the claims is earnestly solicited.

Respectfully submitted,



Harry F. Smith

Reg. No.:32,493

January 12, 1998
Date

Perman & Green, LLP
425 Post Road
Fairfield, CT. 06430

Telephone: (203) 259-1800
Facsimile: (203) 255-5170

09005938 011298

IN THE SPECIFICATION

Please amend the paragraph beginning at column 2, line 50, of US Patent 5,990,763 here presented in the form required by 37 CFR 1.530(d)(1) and (f) as follows:

FIG. 1 shows a cross-section of a first embodiment of the invention, in which the entire [resonator has] resonators have been manufactured in the same step as the shell construction, the embodiment being asymmetric in a direction from one of the resonators toward any other thereof.

Please amend the paragraph beginning at column 2, line 53, of US Patent 5,990,763 here presented in the form required by 37 CFR 1.530(d)(1) and (f) as follows:

FIG. 2 shows a cross-section of a second embodiment of the invention, in which only [the] lower ends of the [resonator has] resonators have been manufactured in the same step as the shell construction, the embodiment being asymmetric in a direction from one of the resonators toward any other thereof.

Please amend the paragraph beginning at column 2, line 57, of US Patent 5,990,763 here presented in the form required by 37 CFR 1.530(d)(1) and (f) as follows:

FIG. 3 shows a cross-section of a third embodiment of the invention, in which the resonators and the bottom portion of the shell construction have been manufactured in the same step, the embodiment being asymmetric in a direction from one of the resonators toward any other thereof.

Please amend the paragraph beginning at column 4, line 50, of US Patent 5,990,763 here presented in the form required by 37 CFR 1.530(d)(1) and (f) as follows:

[Resonators] In FIG. 2, resonators 21-24 are of unequal [length are used] lengths, i.e. heights from the bottom portion 4, which has respective thicknesses thereat, whereby both the resonators and the bottom portion are asymmetrical in a direction from one of the resonators toward any other thereto for providing the desired frequency response. In the example illustrated in FIG. 1, the lengths of the resonators are already determined during the extrusion step. In the embodiment shown in FIG. 1, resonators of unequal length are produced by using middle spaces, or middle recesses 30b, of unequal depth. This embodiment simplifies the method, as it is not necessary to shorten the resonators in order to obtain resonators of unequal length.

IN THE CLAIMS

Please cancel claim 3.

Please amend the claims of US Patent 5,990,763 here presented in the form required by 37 CFR 1.530(d)(2) and (f) as follows:

1. (amended) A filter comprising:

a shell construction with a wall construction and a bottom portion forming at least [one] two sections in the shell construction; and

at least [one] two resonators of solid cross sections respectively within the sections of the shell construction,

wherein at least the bottom portion of the shell construction and at least part of the resonators at the bottom portion of the shell construction are an integral unit extruded from a basic block in one piece, [and]

wherein the shell construction of the filter and [one or more] the resonators either entirely or partly are extruded from a basic block of metal, and

wherein at least one of the shell construction and the resonators is asymmetrical in a direction from one of the resonators toward any other thereof.

4. (amended). A filter, comprising:

a shell construction with a wall construction and a bottom portion forming at least [one] two sections in the shell construction; and

at least [one] two resonators of solid cross sections respectively within the sections of the shell construction,

wherein at least the bottom portion of the shell construction and at least part of the resonator at the bottom portion of the shell construction are an integral unit extruded from a basic block in one piece,

wherein the shell construction of the filter and one or more resonators either entirely or partly are extruded from a basic block of metal, [and]

wherein at least one of the resonators comprises an additional portion added to the resonator produced by extrusion, and

wherein at least one of the shell construction and the resonators is asymmetrical in a direction from one of the resonators toward any other thereof.

Please add the following claims:

6. (New) A filter according to claim 1, wherein the shell construction is asymmetrical.
7. (New) A filter according to claim 1, wherein the resonators are asymmetrical.
8. (New) A filter according to claim 1, wherein the shell construction and resonators are asymmetrical.
9. (New) A filter according to claim 6, wherein the bottom portion of the shell construction is asymmetrical.

10. (New) A filter according to claim 8, wherein the bottom portion of the shell construction is asymmetrical.
11. (New) A filter according to claim 9, wherein the bottom portion of the shell construction is asymmetrical by thickness.
12. (New) A filter according to claim 10, wherein the bottom portion of the shell construction is asymmetrical by thickness.
13. (New) A filter according to claim 7, wherein heights of the resonators from the bottom portion of the shell construction are asymmetrical.
14. (New) A filter according to claim 8, wherein heights of the resonators from the bottom portion of the shell construction are asymmetrical.
15. (New) A filter according to claim 10, wherein heights of the resonators from the bottom portion of the shell construction are asymmetrical.
16. (New) A filter according to claim 12, wherein heights of the resonators from the bottom portion of the shell construction are asymmetrical.
17. (New) A filter according to claim 4, wherein the shell construction is asymmetrical.
18. (New) A filter according to claim 4, wherein the resonators are asymmetrical.

19. (New) A filter according to claim 4, wherein the shell construction and resonators are asymmetrical.

20 (New) A filter according to claim 17, wherein the bottom portion of the shell construction is asymmetrical.

Status of Claims and Support for Claim Changes per 37 CFR 1.530(e)

Claims 1 (amended), 2, 4 (amended) and 5 of US Patent 5,990,763 are pending.

Claim 3 is cancelled.

Claims 6-20 are added.

Support in the disclosure of the patent for the amended and new claims is found in
FIGS. 1, 2, 3 and 5 and column 4, line 50.